

Title (en)

FORCE-SENSING DEVICE FOR MEASURING FORCE ON SOLID STATE ACTUATORS, METHOD FOR MEASURING FORCE, AS WELL AS USE OF FORCE-SENSING DEVICE

Title (de)

KRAFTMESSVORRICHTUNG ZUR MESSUNG DER KRAFT BEI FESTKÖRPERAKTOREN, VERFAHREN ZUR MESSUNG EINER KRAFT SOWIE VERWENDUNG DER KRAFTMESSVORRICHTUNG

Title (fr)

DISPOSITIF DE MESURE DE FORCE POUR MESURER LA FORCE DANS LE CAS D'ACTIONNEURS MONOLITHIQUES, PROCÉDÉ DE MESURE D'UNE FORCE ET UTILISATION DU DISPOSITIF DE MESURE DE FORCE

Publication

EP 2013598 A1 20090114 (DE)

Application

EP 07724703 A 20070427

Priority

- EP 2007003776 W 20070427
- DE 102006019942 A 20060428

Abstract (en)

[origin: DE102006019942A1] The dynamometer has a piezo-resistive layer (1) that is arranged on a carrier such as steel carrier, ceramic carrier and solid-state actuator. A metal layer (2) is arranged between a ceramic actuator ring (3) and the piezo-resistive layer. An insulation layer and/or a wear-resistant coating are held between the actuator ring and the metal layer. Local electrode structures are attached on the piezo-resistive layer and on a sensor layer for measuring force and/or pressure. An independent claim is also included for a method for measuring a force using a dynamometer.

IPC 8 full level

G01L 1/22 (2006.01)

CPC (source: EP US)

G01L 1/18 (2013.01 - EP US); **G01L 1/20** (2013.01 - EP US); **G01L 1/2293** (2013.01 - EP US); **G01P 3/48** (2013.01 - EP US); **H10N 30/80** (2023.02 - EP US)

Citation (search report)

See references of WO 2007124940A1

Cited by

DE102012022113A1; DE102018102380A1; CN108281545A; WO2014075759A1; WO2019149298A1; US11571942B2

Designated contracting state (EPC)

DE

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

DE 102006019942 A1 20071031; **DE 102006019942 B4 20160107**; EP 2013598 A1 20090114; EP 2013598 B1 20120229; JP 2009535610 A 20091001; US 2012090409 A1 20120419; WO 2007124940 A1 20071108

DOCDB simple family (application)

DE 102006019942 A 20060428; EP 07724703 A 20070427; EP 2007003776 W 20070427; JP 2009506996 A 20070427; US 29803507 A 20070427